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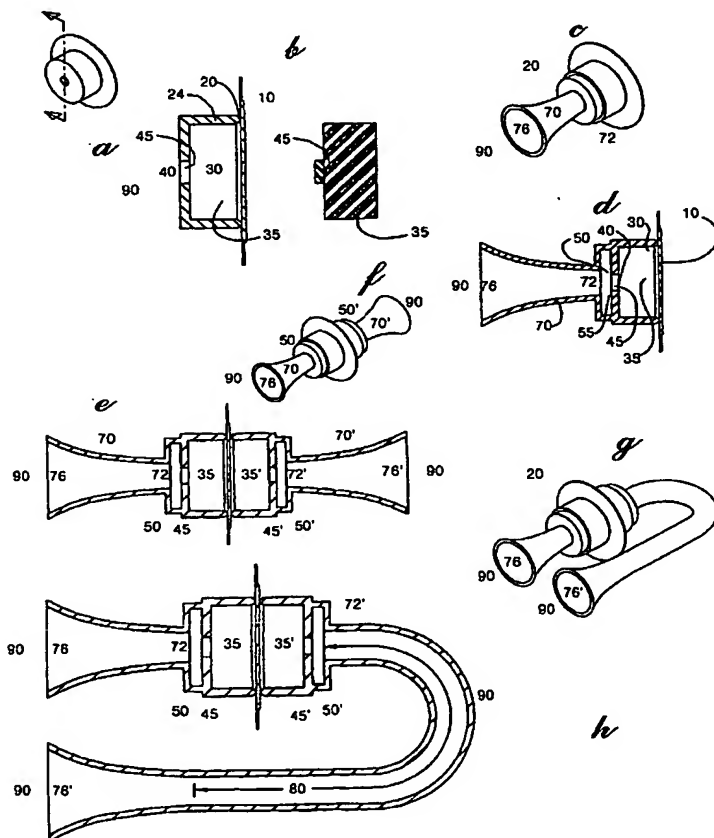
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[Continued on next page]

(54) Title: **IMPROVED EFFICIENCY AUDIBLE ALARM**



(57) Abstract: An audible alarm has first and second acoustic chambers that deliver sound to respective first and second horns. A phase adjustment circuit for delays the phase of sound generated in one of the two chambers so that sound emerging from the two horns is delivered with the same phase and same frequency, and emerging sound from the two horns is additive.

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# INTERNATIONAL SEARCH REPORT

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PCT/US03/38245

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : G08B 3/00 US CL : 340/384.1, 384.6, 384.72, 384.73; 137/14, 111, 205 According to International Patent Classification (IPC) or to both national classification and IPC				
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 340/384.1, 384.6, 384.72, 384.73; 137/14, 111, 205  Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X — Y	US 5,540,248 A (DRZEWIECKI et al.) 30 JULY 1996 (30.07.1996), see entire document.	1-16 — 1-16		
X — Y	US 4,785,280 A (FUBINI et al.) 15 NOVEMBER 1988 (15.11.1988), see entire document.	1-16 — 1-16		
X — Y	US 3,666,273 A (KANTOLA et al.) 30 May 1972 (30.05.1972), see entire document.	1-16 — 1-16		
<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Further documents are listed in the continuation of Box C.         </div> <div> <input type="checkbox"/> See patent family annex.         </div> </div>				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;">           * Special categories of cited documents:             "A" document defining the general state of the art which is not considered to be of particular relevance             "E" earlier application or patent published on or after the international filing date             "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)             "O" document referring to an oral disclosure, use, exhibition or other means             "P" document published prior to the international filing date but later than the priority date claimed         </td> <td style="width: 50%; vertical-align: top;">           "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention             "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone             "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art             "&amp;" document member of the same patent family         </td> </tr> </table>			* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  "&" document member of the same patent family
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